

*** It is now 5/18/2009 3:59:32 PM ***

[File 347] **JAPIO** Dec 1976-2009/Jan(Updated 090503)

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S1 38981 S MUFFL??? OR SILENC??? OR RESONAT???

S2 40543 S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR BOOST???) (3N) PRESSUR?

S3 34856 S (PIPE OR THROAT OR OPENING OR OUTLET) (3N) (SIZE OR DIAMETER OR SHAP???)

S4 3019 S S3 (4N) (REDUC???? OR DECREAS??? OR SMALLER OR SHRINK??? OR CONTRACT???)

S5 210 S S1 AND S2

S6 0 S S4 AND S5

S7 4829 S THROTL??? (5N) CLOS???

S8 3 S S5 AND S7

S9 124825 S (HIGH?? OR INCREAS??? OR GREATER OR PEAK OR INTENSE OR LARG?? OR MAX?????) (4N) PRESSUR?

S10 604 S S1 AND S9

S11 5 S (S7 OR S4) AND S10

S12 3 S S11 NOT S8

S13 0 S AU=ZHANG GUOBIAO

S14 6454 S IC=(F01N-001/08 OR F01N-001/16 OR F04B-039/00 OR F04C-029/06)

S15 476 S S14 AND (S2 OR S9)

S16 2 S S15 AND (S7 OR S4)

S17 1 S S16 NOT (S8 OR S12)

S18 112427 S (REDUC???? OR DECREAS??? OR LOW?? OR DWIND???? OR DIMINISH??? OR PARTIAL?? OR MIN OR MINIMUM? ?) (4N) PRESSUR?

S19 5657 S S3 (4N) (INCREAS??? OR LARG?? OR BIG??? OR ENLARG????? OR WIDE????? OR LENGTH????? OR EXPAN????? OR OUTWARD??)

S20 647 S S18 AND S1

S21 9 S S20 AND (S4 OR S19)

S22 201 S S18 AND (S4 OR S19)

S23 3 S S14 AND S22

S1 38981 S MUFFL??? OR SILENC??? OR RESONAT???

S2 34856 S (PIPE OR THROAT OR OPENING OR OUTLET) (3N) (SIZE OR DIAMETER OR SHAP???)

S3 8690 S WALL (3N) (SIZE OR DIAMETER OR SHAP???)

S4 43045 S S2:S3

S5 1221673 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET? ? OR WALL? ?)

S6 158977 S S5 (4N) (SHRINK??? OR NARROW??? OR CLOSES OR CLOSING OR SKINN??? OR CONTRACT??? OR SMALL?? OR DECREAS???? OR REDUC????)

S7 35366 S S5 (4N) (LARG?? OR BIG??? OR ENLARG????? OR WIDE????? OR EXPAN????)

S8 46345 S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR BOOST??? OR EXCEED??? OR SURPASS??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP??? OR RAMP???) (3N) (PRESSUR? OR COMPRESSION? ?)

S9 108663 S (REDUC???? OR DECREAS??? OR LOW?? OR DWIND???? OR DIMINISH??? OR PARTIAL?? OR MIN OR MINIMUM? ?) (3N) (PRESSUR? OR COMPRESSION? ?)

S10 3040 S S6 AND S8

S11 27 S S1 AND S10

S12 402 S S6 (7N) S8

S13 2 S S1 AND S12

S14 10 S S4 AND S12

S15 10 S S14 NOT S13

S16 62225 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR WALL? ?) (3N) (SIZE OR DIAMETER OR SHAP??? OR AREA? ?)

S17 30 S S12 AND S16

S18 20 S S17 NOT S13:S14

S19 255224 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRINK??? OR
 NARROW??? OR CLOSES OR CLOSING OR SKINN??? OR CONTRACT??? OR SMALL?? OR DECREAS????
 OR REDUC????)
 S20 164899 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (LARG?? OR BIG??? OR
 ENLARG????? OR WIDE????? OR EXPAN????)
 S21 194 S S7(7N)S9
 S22 5 S S21 AND S1
 S23 92 S S21 AND (GAS?? OR AIR OR EXHAUST)
 S24 38 S S16 AND S21
 S25 1 S S22 AND S24
 S26 42 S S22 OR S24
 S27 41 S S26 NOT S18
 S28 13 S S23 AND S27
 S29 57067 S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR
 BOOST??? OR EXCEED??? OR SURPASS??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP???
 OR RAMP???) (5N) (PRESSUR? OR COMPRESSION? ?)
 S30 125213 S (REDUC???? OR DECREAS??? OR LOW?? OR DWIND???? OR DIMINISH??? OR
 PARTIAL?? OR MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ?)
 S31 426 S S19 (7N) S29
 S32 465 S S20 (7N) S30
 S33 883 S S31:S32
 S34 84 S S33 AND S16
 S35 1 S S34 AND S1
 S36 10 S S24 AND (GAS?? OR AIR OR EXHAUST)
 S37 28 S S25:S26 NOT (S28 OR S18)
 S38 27 S S37 NOT S13:S14
 S39 10 S S1 AND S33
 S40 10 S S39 NOT (S28 OR S18 OR S13:S14)
 S41 115031 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRINKING OR
 NARROWING OR CLOSING OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR
 REDUC????)
 S42 25615 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (ENLARGING OR
 ENLARGED OR WIDEN??? OR EXPANDING OR EXPANDED)
 S43 302 S S29 (8N) S41
 S44 111 S S30 (8N) S42
 S45 410 S S43:S44
 S46 130892 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR
 WALL? ?) (4N) (GAS?? OR AIR OR EXHAUST)
 S47 25 S S45 AND S46
 S48 24 S S47 NOT (S28 OR S18 OR S13:S14 OR S39)

 S1 1318 S (THROTTL??? OR VALV??? OR MULTIVALV???) (4N) (ENLARGING OR ENLARGED
 OR WIDEN??? OR EXPANDING OR EXPANDED)
 S2 87692 S (THROTTL??? OR VALV??? OR MULTIVALV???) (4N) (SHRUNK?? OR SHRINKING
 OR NARROWING OR CLOS??? OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR
 REDUC????)
 S3 47508 S (RAISING OR ELEVATING OR ELEVATED OR RAISED OR INCREASING OR
 INCREASED OR RISIN?? OR RISE? ? OR BOOST??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR
 JUMP??? OR RAMP???) (5N) (PRESSUR? OR COMPRESSION? ? OR FLOW)
 S4 113243 S (REDUC???? OR DECREAS??? OR LOWER??? OR DWIND???? OR DIMINISH??? OR
 MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ? OR FLOW)
 S5 59 S S1 (7N) S4
 S6 1232 S S2 (7N) S3
 S7 38981 S MUFFL??? OR SILENC??? OR RESONAT???
 S8 64112 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR
 WALL? ?) (3N) (SIZE? ? OR DIAMETER? ? OR SHAP??? OR AREA? ?)
 S9 2 S S5 AND S7:S8
 S10 30 S S6 AND S7:S8
 S11 30 S S10 NOT S9

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S1 23 S AU=ZHANG, GUOBIAO

S2 1 S AU=ZHANG GUOBIAO

S3 281969 S (RAISING OR ELEVATING OR ELEVATED OR RAISED OR INCREASING OR INCREASED OR RISIN?? OR RISE? ? OR BOOST??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP??? OR RAMP???) (5N) (PRESSUR? OR COMPRESSION? ?)

S4 389692 S (REDUC???? OR DECREAS??? OR LOWER??? OR DWIND???? OR DIMINISH??? OR MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ?)

S5 542995 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRUNK?? OR SHRINKING OR NARROWING OR CLOSING OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR REDUC????)

S6 29998 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (ENLARGING OR ENLARGED OR WIDEN??? OR EXPANDING OR EXPANDED)

S7	24	S S1:S2
S8	10	RD (unique items)
S9	2527	S S3 (7N) S5
S10	81	S S4 (7N) S6
S11	391715	S MUFFL??? OR SILENC??? OR RESONAT???
S12	141387	S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR WALL? ?) (3N) (SIZE? ? OR DIAMETER? ? OR SHAP??? OR AREA? ?)
S13	9	S S9:S10 AND S11
S14	104	S S9:S10 AND S12
S15	9	S S13
S16	8	RD (unique items)
S17	104	S S14
S18	56	RD (unique items)
S19	203103	S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR WALL? ?) (4N) (GAS?? OR AIR OR EXHAUST? ?)
S20	10	S S18 AND S19